IN THE CLAIMS

Please amend the claim as follows:

1. (Currently Amended) A wideband erbium-doped optical fiber amplifier, for use with a first and second wavelength band optical signals, having a first optical path and a second optical path parallel to each other, comprising:

a first amplifying section disposed on the first optical path, the first amplifying section including a first erbium-doped optical fiber configured to -amplify the first-band optical signals, and a filter configured to gain-flatten the amplified first-band optical signals, wherein and to reflect a reflected portion of the first band optical signal by the filter is directed to the second optical path; and

a second amplifying section disposed on the second optical path, the second amplifying section having a second erbium-doped optical fiber and configured to amplify received second-band optical signals,

wherein the reflected first-band optical signal is used to pumps the second erbium-doped optical fiber.

- 2. (Original) The wideband erbium-doped optical fiber amplifier as claimed in claim 1, wherein the wideband erbium-doped optical fiber amplifier is disposed on an optical fiber through which first and second wavelength band optical signals are transmitted.
- 3. (Original) The wideband erbium-doped optical fiber amplifier as claimed in claim 1, wherein the first and second wavelength band optical signals are a C-band and a L-band optical signal.

- 4. (Currently Amended) The wideband erbium-doped optical fiber amplifier as claimed in claim 3, further including a circulator disposed between the second optical path and the filter, the circulator used to configured to output the amplified C-band optical signal to the filter and the reflected portion of the first band optical signal by the filter to the second optical path.
- 5. (Currently Amended) The wideband erbium-doped optical fiber amplifier as claimed in claim 1, wherein the reflected portion of the first band optical signal reflected by the filter is a non-uniform portion in the gain spectrum.
- 6. (Currently Amended) The wideband erbium-doped optical fiber amplifier as claimed in claim 4, further comprising a first wavelength division multiplexing optical coupler <u>configured</u> to divide the received C-band and L-band optical signals and <u>to provide</u> the C-band optical signal to the first optical path and the L-band optical signal to the second optical path.
- 7. (Currently Amended) The wideband erbium-doped optical fiber amplifier as claimed in claim 6, further comprising a <u>fifth</u>—<u>second</u> wavelength division multiplexing optical coupler <u>configured</u> to couple the C-band and L-band optical signals from the first and second optical paths.

- 8. (Currently Amended) A wideband erbium-doped optical fiber amplifier as claimed in claim 4, wherein the first amplifying section further comprises:
- a first pumping light source <u>configured</u> to output a first pumping light for use by the first erbium-doped optical fiber; and
- a second wavelength division multiplexing optical coupler <u>configured</u> to -provide the first pumping light to the first erbium-doped optical fiber.
- 9. (Currently Amended) A wideband erbium-doped optical fiber amplifier as claimed in claim 8, wherein the first amplifying section further comprises a first isolator disposed on the first optical path, the first isolator configured to intercept—backward_light_an Amplified Spontaneous Emission output from the first erbium-doped optical fiber.
- 10. (Currently Amended) A wideband erbium-doped optical fiber amplifier as claimed in claim 1, wherein the second amplifying section further comprises:
- a second pumping light source <u>configured</u> to provide a <u>third second</u> pumping light for use by the second erbium-doped optical fiber; and
- a fourth wavelength division multiplexing optical coupler <u>configured</u> to provide the <u>third</u> <u>second</u> pumping light to the second erbium-doped optical fiber.
- 11. (Currently Amended) A wideband erbium-doped optical fiber amplifier as claimed in claim 10, wherein the second amplifying section further comprises a second isolator disposed on the second optical path, the second isolator configured to intercept backward light an Amplified Spontaneous Emission output from the second erbium-doped optical fiber.

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- 12. (Original) A wideband erbium-doped optical fiber amplifier as claimed in claim 4, wherein the filter comprises a chirped optical fiber grating.
- 13. (Original) A wideband erbium-doped optical fiber amplifier as claimed in claim 4, wherein the second erbium-doped optical fiber is pumped forward by the reflected C-band optical signal.
- 14. (Original) A wideband erbium-doped optical fiber amplifier as claimed in claim 1, wherein the second erbium-doped optical fiber is pumped backward by the reflected C-band optical signal.